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Bertoch et al.

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(54) **CATHETER SECURING DEVICE AND BITE BLOCK**

(75) Inventors: **Todd M. Bertoch**, APO, AP 96326;
Ted F. Gingrich, San Antonio, TX
(US); **Steven C. Walker**, Baldwin, MO
(US); **John M. Shepherd**, San Antonio,
TX (US)

(73) Assignee: **The United States of America as
represented by the Secretary of the
Army**, Washington, DC (US)

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(56) **References Cited**

U.S. PATENT DOCUMENTS

2,521,084 A	8/1950	Oberto	128/141
2,669,988 A	2/1954	Carpenter	128/136
2,693,182 A	11/1954	Phillips	
2,820,457 A	1/1958	Phillips	
2,882,893 A	4/1959	Godfroy	128/136
2,908,269 A	10/1959	Cheng	
3,602,227 A	8/1971	Andrew	

(List continued on next page.)

FOREIGN PATENT DOCUMENTS

WO	WO 01/58349 A1	8/2001
WO	WO 01/62325 A1	8/2001

Primary Examiner—Brian L. Casler

Assistant Examiner—Catherine Serke

(74) *Attorney, Agent, or Firm*—Elizabeth Arwine

(57) **ABSTRACT**

A device for securing a catheter with respect to a patient's mouth that preferably includes a balloon that can be inflated within the patient's mouth on the exterior of the catheter, a bite block, and a shield. The balloon preferably immobilizes the catheter with respect to the securing device when inflated while permitting relative movement of the catheter and the securing device when deflated. The balloon preferably also prevents inadvertent withdrawal of the securing device from the patient's mouth when inflated while permitting withdrawal when deflated. The invention preferably includes a method for using such a securing device.

19 Claims, 3 Drawing Sheets

